

Notice of Allowability

Application No.

10/812,514

Examiner

Tuan V. Thai

Applicant(s)

MALCOLM, MICHAEL A.

Art Unit

2186

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/02/2006.
2. ☒ The allowed claim(s) is/are 61-81 renumbered as 1-21 respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

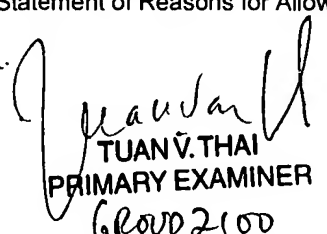
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 10/04/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


TUAN V. THAI
PRIMARY EXAMINER
Group 2100

Application/Control Number: 10/812,514

Art Unit: 2186

Attorney's Docket No.: 101.1007.04

**IN THE UNITED STATES PATENT AND
TRADEMARK OFFICE**

In re application of: Malcolm, Michael A. **Group:** 2186

Serial No.: 10/812,514 **Examiner:** Tuan Thai

For: ***MULTIPLE CACHE COMMUNICATION AND UNCACHEABLE OBJECTS.***

1. This action is responsive to communication filed November 02, 2006. Claims 1-60 have been canceled. Claims 61-81 are now allowed.

REASONS FOR ALLOWANCE

2. The following is an Examiner's Statement of Reasons for Allowance:

The prior arts of record do not teach nor suggest, either alone or in combination, all the limitations of the amended claims of the current invention (claims 61 and 72). Particularly the prior arts of record do not teach nor suggest all the combined limitations in each claim separately. The prior arts of record do not teach nor suggest a method for determining uncacheable object in a cache comprising the steps of receiving at a second cache a cache request for an uncacheable object in a

Application/Control Number: 10/812,514

Art Unit: 2186

current state, the cache request being generated by a first cache in response to a client request; requesting at the second cache information regarding the uncacheable object in the current state from a server; obtaining at the second cache a tag value associated with the uncacheable object in the current state; determining whether the first cache is likely to have the uncacheable object in the current state, the step of determining being performed in response to the step of obtaining (claim 61). In addition, the prior arts of record do not further disclose a memory storing information including instructions executable by a processor of a root cache, the instructions, when executed by the processor, causing the root cache to perform the steps of receiving a cache request for an uncacheable object in a current state, the cache request being generated by a first leaf cache in response to a client request; requesting information regarding the uncacheable object in the current state from a server; obtaining a tag value associated with the uncacheable object in the current state; determining whether the first leaf cache is likely to have the uncacheable object in the current state, the step of determining being performed in response to the step of obtaining (claim 72). In light of the foregoing, claims 61 and 72 of the present application are found to be patentable over the prior arts.

Claims 62-71 and 73-81 further limit the allowable

Application/Control Number: 10/812,514

Art Unit: 2186

independent claims 61 and 72. These claims are therefore allowable for the same reason as set forth above.

Any comments considered necessary by Applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan V. Thai whose telephone number is (571)-272-4187. The examiner can normally be reached on from 6:30 A.M. to 4:00 P.M..

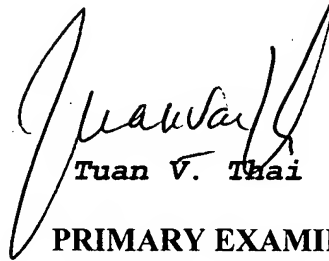
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew M. Kim can be reached on (571)-272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic

Application/Control Number: 10/812,514

Art Unit: 2186

Business Center (EBC) at 866-217-9197 (toll-free).

TVT/November 11, 2006



Tuan V. Thai

PRIMARY EXAMINER

Group 2100